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Patent 112.P14025

IN THE CLAIMS

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) An optical scanner comprising:

a light sensitive charge storage device;

an optical system;

a vibration sensor mounted on the light sensitive charge storage device, the vibration sensor capable of detecting a magnitude of vibration of the light sensitive charge storage device;

a controller connected to the vibration sensor, the controller capable of ~~measuring the magnitude of vibration of the light sensitive charge storage device and further capable of~~ producing a corresponding actuator signal; and

an actuator connected to the controller and to the optical system, the actuator capable of adjusting the optical system according to the actuator signal.

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2. (Currently Amended) The optical scanner of claim 1, wherein the optical system comprises ~~[[a]] one or more mirrors~~, the actuator capable of adjusting the optical system through rotating the one or more mirrors.

3. (Cancelled)

4. (Currently Amended) A method of compensating for vibration of an optical scanner, comprising:

measuring a magnitude of vibration of a light sensitive charge storage device using a vibration sensor mounted on said light sensitive charge storage device;

converting the measured vibration magnitude into an actuator signal; and

compensating for the measured vibration by adjusting an optical system according to the actuator signal.

5. (Currently Amended) The method of claim 4, wherein adjusting the optical system comprises rotating ~~[[a]] one or more mirrors~~.

6. (Cancelled)

7. (Currently Amended) An apparatus comprising:

means for sensing a vibration of a light sensitive charge storage device of an optical device scanner, wherein said means for sensing is mounted on said light sensitive charge storage device;

means for converting said vibration to an actuator signal; and

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means for adjusting an optical system according to the actuator signal.

8. (Currently Amended) The apparatus of claim 7, wherein said means for adjusting [[the]] said optical system comprises means for adjusting [[a]] one or more mirrors.

9. (Cancelled)

10. (Cancelled)

11. (Previously Presented) The optical scanner of claim 1 wherein said light sensitive charge storage device comprises a charge-coupled device.

12. (Currently Amended) An ~~optical scanner~~ apparatus comprising:

~~a light sensitive charge storage device;~~

~~an optical system;~~

~~a vibration sensor mounted~~ mountable on said ~~a~~ light sensitive charge storage device ~~for an optical scanner~~, said vibration sensor capable of detecting a magnitude of vibration of said light sensitive charge storage device and producing a signal capable of being employed to adjust the optics for said optical scanner. [[:]]

~~a controller connected to said vibration sensor, said controller capable of measuring said magnitude of vibration of said light sensitive charge storage device, said controller implementing proportional integral derivative control, said controller further capable of producing a corresponding actuator signal; and~~

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~~an actuator connected to said controller and to said optical system, said actuator capable of adjusting said optical system according to said actuator signal.~~

13. (Currently Amended) The optical scanner apparatus of claim 12, wherein:
said optical system optics comprises [[a]] one or more mirrors, ~~said actuator capable of adjusting said optical system through rotating said mirror.~~

14. (Previously Presented) The apparatus of claim 12 wherein said light sensitive charge storage device comprises a charge coupled device.

15. (New) The optical scanner of claim 1, further adapted to scan a document.

16. (New) The optical scanner of claim 1, wherein said vibration sensor is further capable of detecting movement.

17. (New) The optical scanner of claim 16, wherein said vibration sensor capable of detecting movement is further capable of detecting movement in any of the X, Y, or Z directions.

18. (New) The method of claim 4, further comprising scanning a document.

19. (New) The method of claim 4, wherein said measuring a magnitude of vibration further comprises detecting movement.

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20. (New) The method of claim 19, wherein said detecting movement further comprises detecting movement in any of the X, Y, or Z directions.
21. (New) The apparatus of claim 7, wherein said apparatus further comprises means for scanning a document.
22. (New) The apparatus of claim 7, wherein said means for sensing vibration further comprises means for detecting movement.
23. (New) The apparatus of claim 22, wherein said means for detecting movement further comprises means for detecting movement in any of the X, Y, or Z directions.
24. (New) The apparatus of claim 12, wherein said apparatus is further adapted to scan a document.
25. (New) The apparatus of claim 12, wherein said vibration sensor is further capable of detecting movement.
26. (New) The apparatus of claim 25, wherein said vibration sensor is further capable of detecting movement in any of the X, Y, or Z directions.

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